

Sub A2
What is claimed is:

1. A method for determining peak altitude of a moving sportsman, comprising:
viewing the sportsman through a camcorder;
assessing frames of data provided by the camcorder to locate motion within the frames of data; and
determining the altitude by comparing the highest point of motion by the sportsman within the frames of data to a reference object to calculate actual altitude achieved by the sportsman along a motion track.
2. A method of claim 1, further comprising the steps of sending the frames of data to a computer through a data link and evaluating the frames of data to determine motion within the frames.
3. A method of claim 2, further comprising the step of automatically determining a motion track of the sportsman through time.
4. A method of claim 3, further comprising the step of determining airtime from the track.
5. A method of claim 4, wherein the camera comprises a digital camcorder and wherein the link comprises a Firewire connection.
6. A method of claim 3, further comprising the step of determining the speed of the sportsman by evaluating physical movement of the sportsman through successive frames of data.
7. A method of claim 1, further comprising the step of capturing the frames of data at at least 30Hz and preferably at 60-100Hz or more.
8. A method of determining the location, peak and final speed, and airtime of a moving sportsman, comprising the steps of mounting a radio beacon on the sportsman and monitoring the location of the sportsman through triangulation to determine the location at any instant of time.
9. A method of claim 6, further comprising determining a peak speed of the sportsman during motion of the sportsman by evaluating the location through successive time intervals.
10. A method of claim 6, further comprising determining a final speed of the sportsman just prior to a landing by determining a final speed of the sportsman just prior to the landing.
11. A method of claim 6, further comprising determining the airtime of the sportsman by evaluating the motion of the sportsman through the air from a first ground location to a landing location.

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